

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

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C1 1 (previously presented): A method for providing functionality on a network, the network comprising nodes, the method comprising:

- moving an agent from a first device to a target device;
- re-routing relevant traffic to the target device; and
- performing application layer gateway functionality by the agent at the target device.

2 (original): The method of claim 1 where the agent acts as a web cache.

3 (original): The method of claim 1 where the agent acts as a media transcoder.

4 (original): The method of claim 1 where the agent acts as a firewall.

5 (original): The method of claim 1 where, to act as the application layer gateway, the agent:

- accepts traffic sent to the target device addressed to a client device;
- performs at least one of filtering the traffic or modifying the traffic; and
- sends the traffic to the client device.

6 (original): The method of claim 5 where the agent may automatically move to a second target device and act as an application layer gateway.

7 (original): The method of claim 1 further comprising:

- the agent, before performing application layer gateway functionality, installing a software module to aid in performing such functionality.

8 (original): The method of claim 1 where the agent may automatically uninstall itself.

CA  
9 (previously presented): A network comprising:  
a plurality of nodes;  
a plurality of links connecting the nodes;  
a mobile agent residing on a node of the network, where the mobile agent is able to function as an application layer gateway; and  
a route device residing on one node of the network, the route device configured to divert to the mobile agent traffic relevant to the mobile agent.

10 (canceled)

11 (original): The network of claim 9 where the mobile agent functions as a web cache.

12 (original): The network of claim 9 where the mobile agent functions as a media transcoder.

13 (original): The network of claim 9 where the mobile agent functions as a firewall.

14 (original): The network of claim 10 where the agent may move automatically to a second node and function as an application layer gateway.

15 (original): The network of claim 9 further comprising:  
a software module installed on the node on which the agent is installed, the software module aiding in performing application layer gateway functionality.

16 (previously presented): The network of claim 9 where the agent may automatically uninstall itself.

17 (previously presented): A method for providing functionality on a network, the network comprising nodes, the method comprising:  
moving an agent from a first device to a target device;  
re-routing a relevant data stream from a source to the target device; and  
at the target device, the agent accepting the data stream from the source, performing a function on the data stream, and passing the data stream to one of a set of client devices.

18 (original): The method of claim 17 where the function is a web cache function.

19 (original): The method of claim 17 where the function is a media transcoder function.

20 (original): The method of claim 17 where the function is a firewall function.

C1  
21 (previously presented): A set of instructions residing in a storage medium, said set of instructions capable of being executed by a processor to implement a method for providing functionality on a network, the method comprising:

- moving an agent from a first device to a target device;
- re-routing relevant traffic to the target device; and
- performing application layer gateway functionality at the target device by the agent.

22 (original): The set of instructions of claim 21 where, to act as the application layer gateway, the agent:

- accepts traffic sent to the target device addressed to a client device;
- performs at least one of filtering the traffic or modifying the traffic; and
- sends the traffic to the client device.

23 - 25 (canceled)

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